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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/827,882	04/04/2001	Mark Buer	BRCMP006/BP	5560

7590 05/20/2005

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EXAMINER
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CALLAHAN, PAUL E

ART UNIT	PAPER NUMBER
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2137

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/827,882

Applicant(s)

BUER ET AL.

Examiner

Paul Callahan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 February 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6,9-12,14,16-22,24,25,27,29 and 30 is/are rejected.
- 7) ☒ Claim(s) 7,8,13,15,23,26,28 and 31 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Response to Amendment***

1. Claims 1-31 are pending in this application and have been examined.

***Response to Arguments***

2. Applicant's arguments filed 2-10-2005 have been fully considered but they are not persuasive.

The applicant argues that the claim 1 may be distinguished from the teachings of Silverbrook 6,334,190 by noting that the claim teaches the use of an inner and an outer hash engine. Silverbrook does teach this in the use of different registers for the first and second hash processes performed at col. 11 lines 9-27.

The applicant argues that Silverbrook fails to teach "a dual-frame payload input buffer configured for loading one new data block while another data block is being processed. Yet a careful reading of Silverbrook show that such is taught in the passage cited in col. 45 lines 1-10 where the use of temporary registers as such buffers is taught.

The applicant similarly argues that the fourth element of the claim is not taught by Silverbrook. Yet such is taught as col. 45 lines 1-10 as discussed supra.

The applicant argues that Silverbrook fails to teach a dual ported ROM. Yet such is indeed taught at col. 38 where such a ROM is discussed.

The Applicant argues that the final element of Claim 16 is not taught by Silverbrook. Yet a careful reading of the Silverbrook patent shows that such is indeed

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taught at col. 11 lines 9-27 where the HMAC has is discussed. Parallel processing is taught at col. 45 as well.

The limitations of claim 14 are taught at the passages indicated in Schneier where alternative critical paths are taught in figure 18.7 on page 444, and steps 4-6 on page 445. No alternative processing steps are taught in claim 14 as the applicant asserts.

Schneier does indeed mention timing in relation to the hash processing in steps 4-6 on page 445.

On page 21 and 22 of the amendment, the applicant argues features not found in claim 1 or in claim 4, nowhere in the language of either claim is there found any mention of multiplication operations. The applicant asserts that Sait does not teach addition operations, yet such are taught at least at section 1: Introduction where the high speed features of addition of partial products and single addition of carry and sum vectors is taught.

***Claim Rejections - 35 USC § 102 § 103***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

No substantive change to the language of the claims has been made by the latest amendment and thus no changes to the language of the rejections are necessary. Therefore the claims stand rejected as stated in the previous Office Action. The

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rejections themselves will not be repeated herein but instead are hereby incorporated in their entirety by reference to the previous Office Action.

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following US Patent document is pertinent to the applicant's invention:

Cairns        4,801,935

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (571) 272-3869. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Andrew Caldwell, can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is: (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

5-12-05

*Paul Callahan*

*Matthew Smithers*  
MATTHEW SMITHERS  
PRIMARY EXAMINER  
*Art Unit 2137*